

PanaX EX Commander Quick Start Guide

Version : 2.00

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Panasonic Semiconductor Solutions Co., Ltd.

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- About this Manual

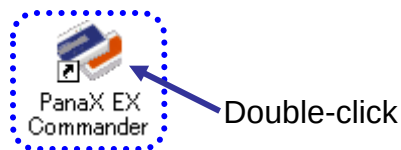
- This manual provide a simple explanation about usage of the PanaX EX Commander.

-
- * Please refer to the "PanaX EX Commander User's manual" for more information.
 - * GUI screen has some differences depending on the version of the PanaX EX Commander.
-

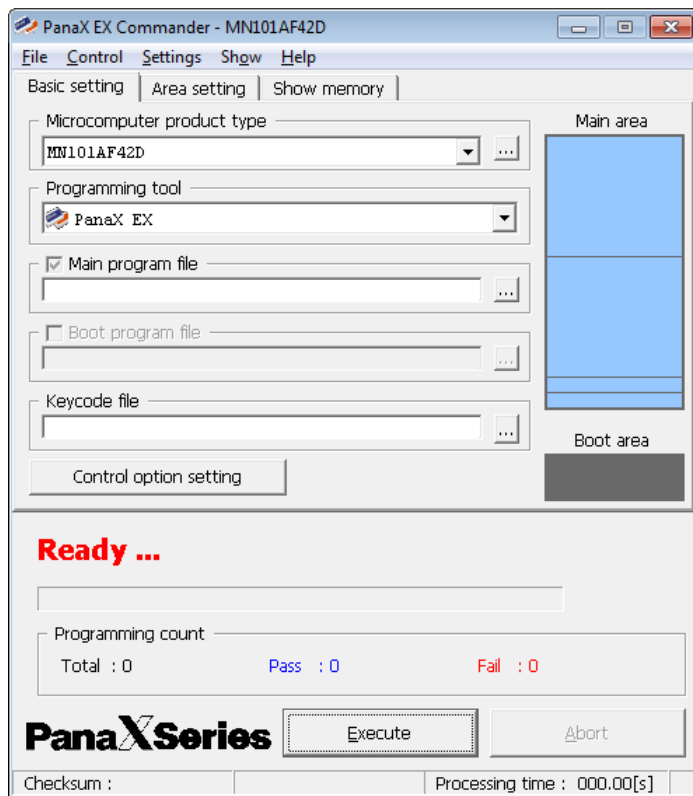
PanaX EX Commander Startup

* For detail about the startup options, refer to the User's manual "3.5 Startup Options".

(1) Double-click the PanaX EX Commander icon.

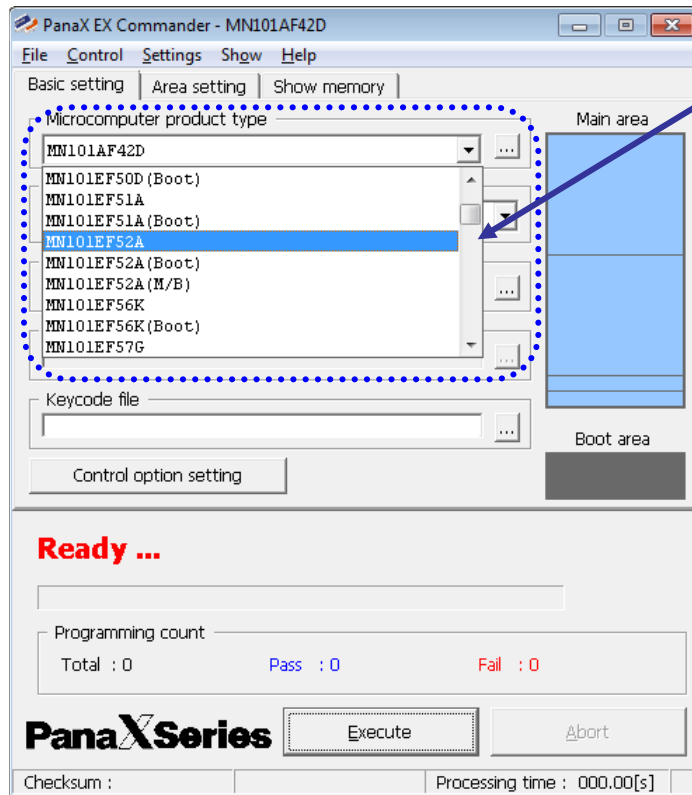


(2) When the PanaX EX Commander startup normally, the following window will be displayed.

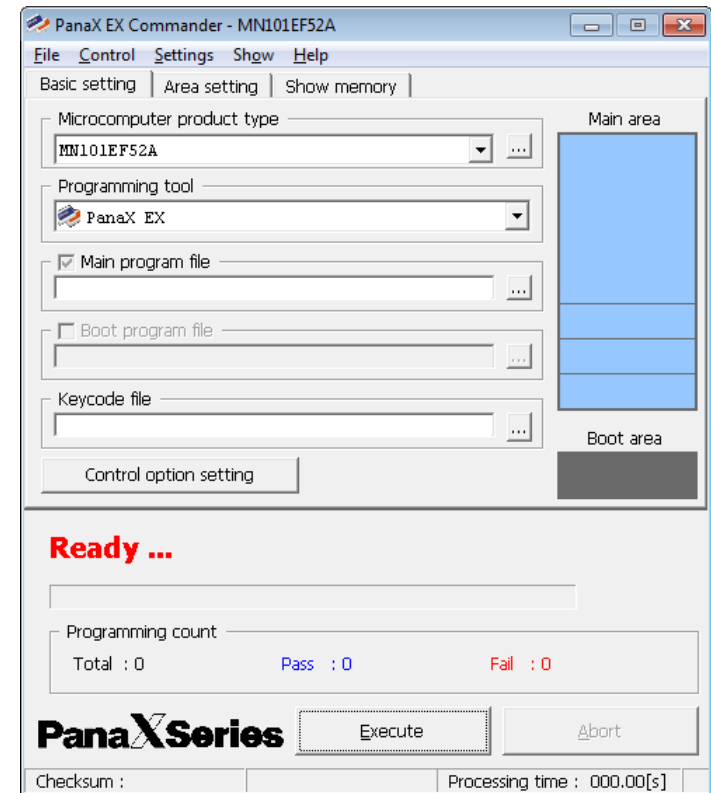


PanaX EX Commander Setup (1/4)

- (1) Select the Microcomputer product type from the drop-down list.
(If it is hard to find, click the < . . > button for search)

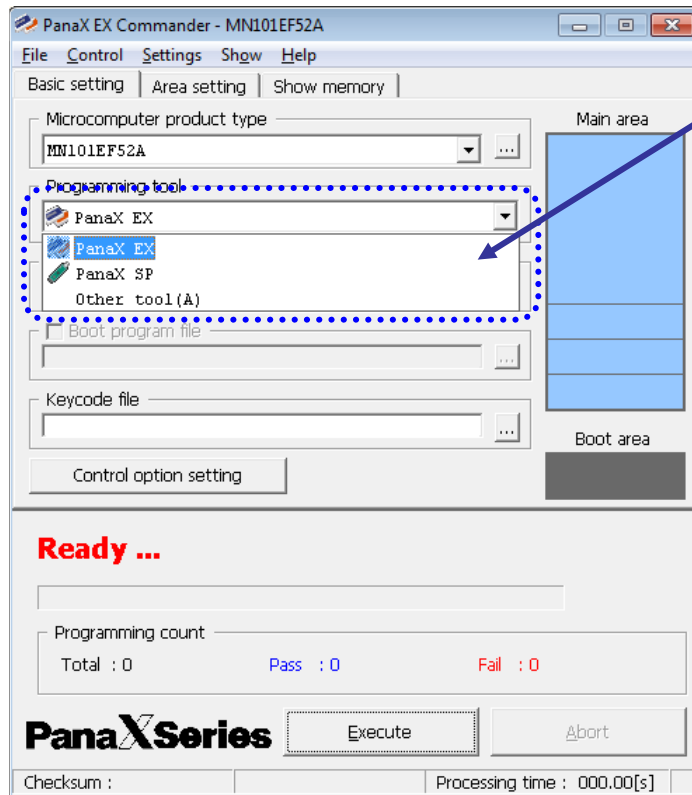


Select the Microcomputer product type

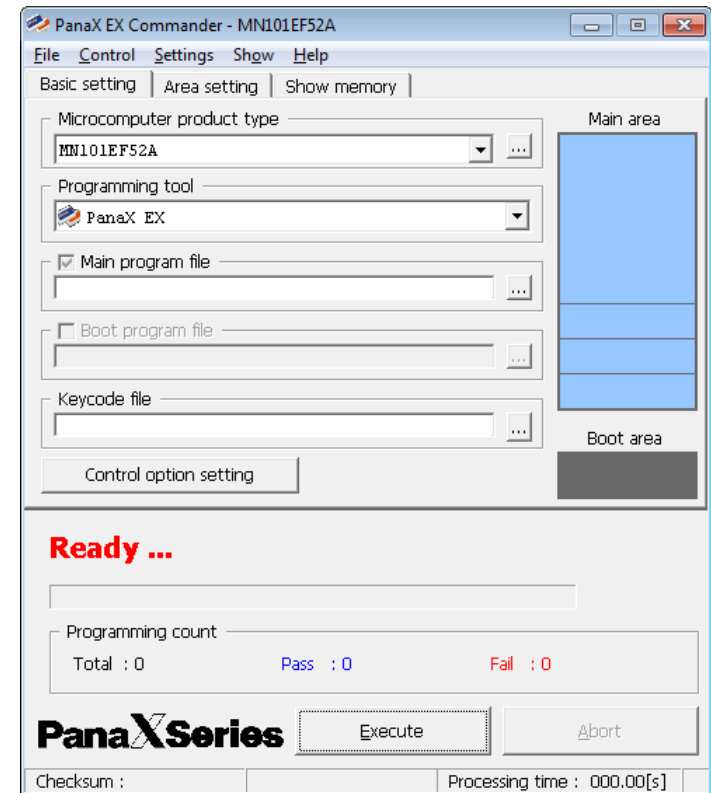


PanaX EX Commander Setup (2/4)

- (2) Select the Programming tool from the drop-down list.
The programming tool that support the selected Microcomputer product type will be listed.

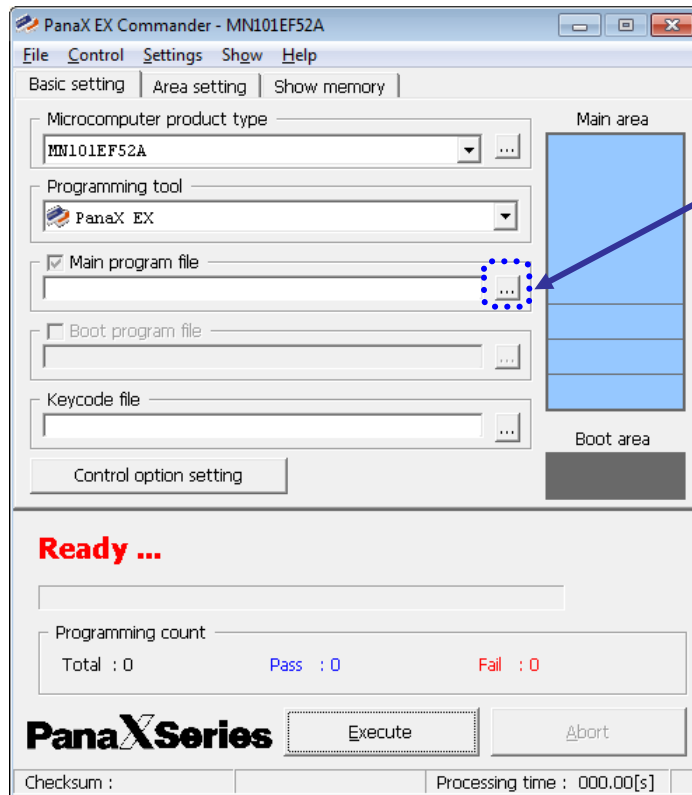


Select the Programming tool

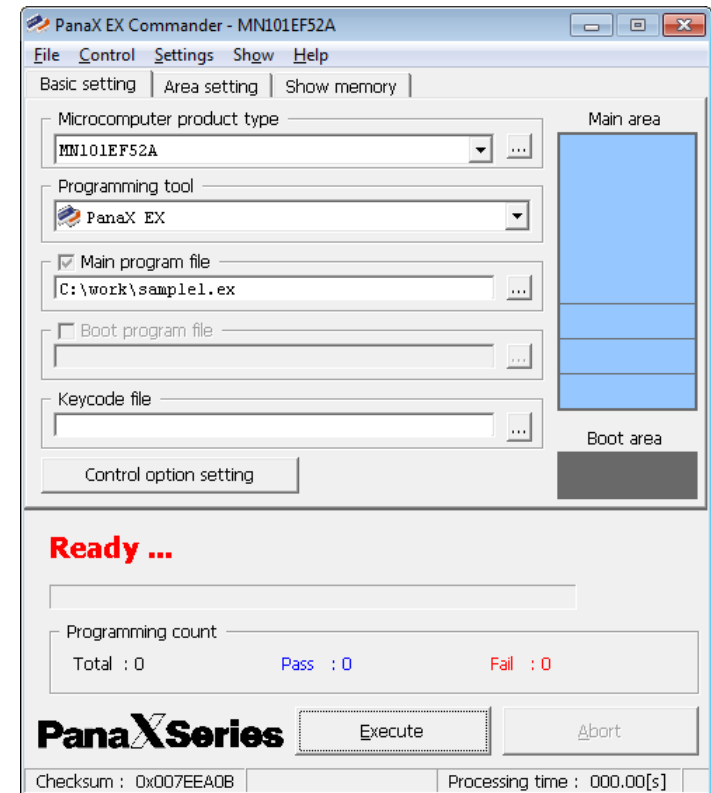


PanaX EX Commander Setup (3/4)

- (3) Select the program file.
(The program file can be loaded by drag-and-drop)



Click the <...> button, and select the program file



PanaX EX Commander Setup (4/4)

* For detail about the control options, refer to "Control Option Settings" on the User's manual "3.1.1.3 Settings".

(4) If necessary, select the menu [Settings] - [Control option setting...] and set the control options.

Control option setting

Program file option

Padding value: 0x FF

Address offset: [(-)0x7FFFFFFF - (+)0x7FFFFFFF] 0x 00000000

Target communication setting

Communication frequency: 5.000 MHz

Communication time-out period [1000 - 30000](ms): 1000

Security setting

☐ Set the keycode of dedicated area storage method with programming

Verify mode

☒ Checksum ☐ All data

Execution button setting

☒ Load program file ☒ Erase

☒ Program ☒ Verify

☐ Enable external execute button

Event notification

Buzzer setting

Target board setting

☒ Supply power to the target board

+3.3V +5.0V

Supply test

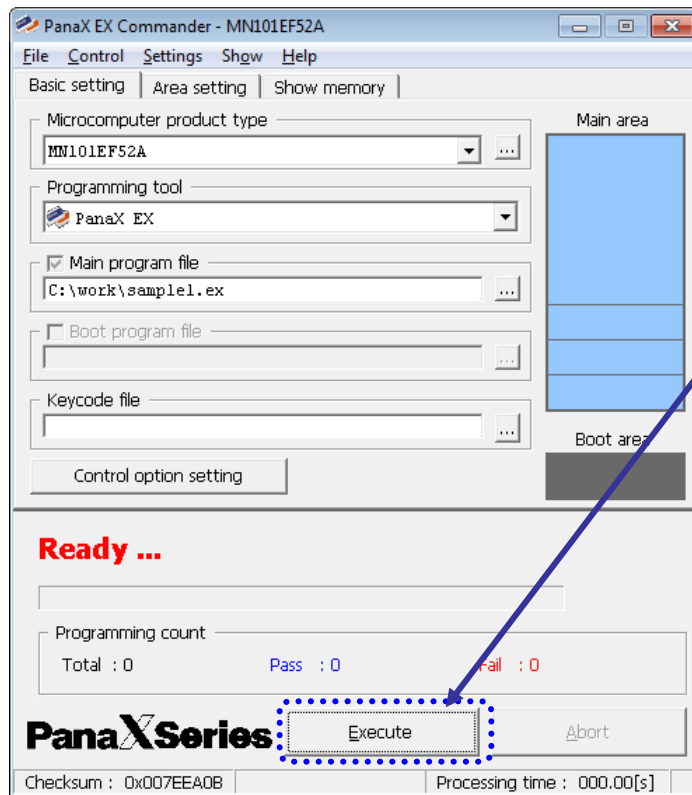
Wait time after power supply [1 - 30000](ms): 100

☐ Keep reset except programmer controls

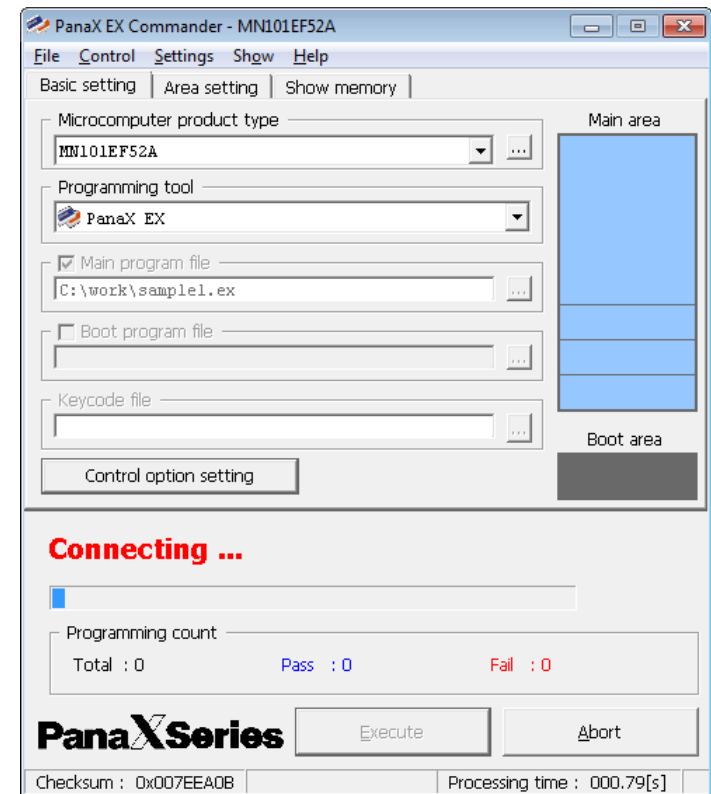
OK Cancel

PanaX EX Commander Programming (1/3)

(1) Click the <Execute >button. Then the PanaX EX Commander will start the programming.

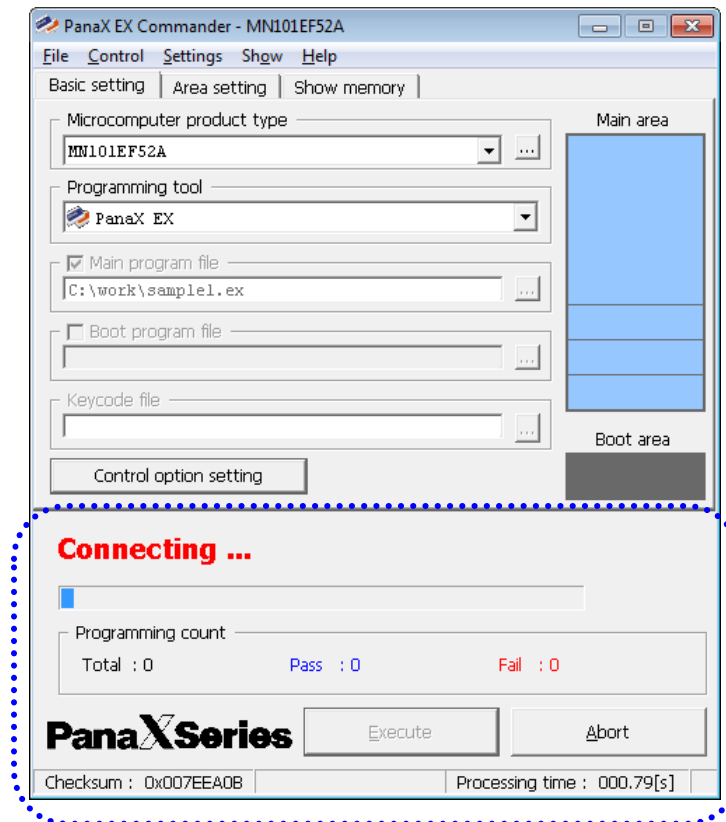


Click the <Execute> button

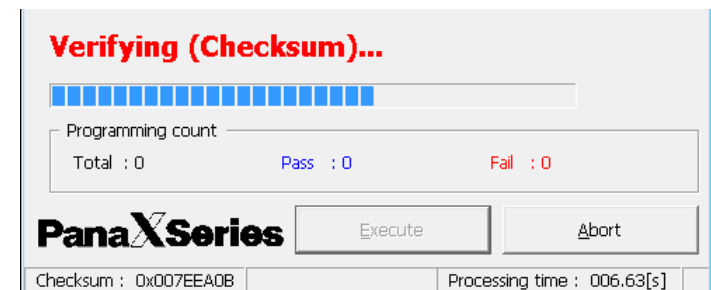
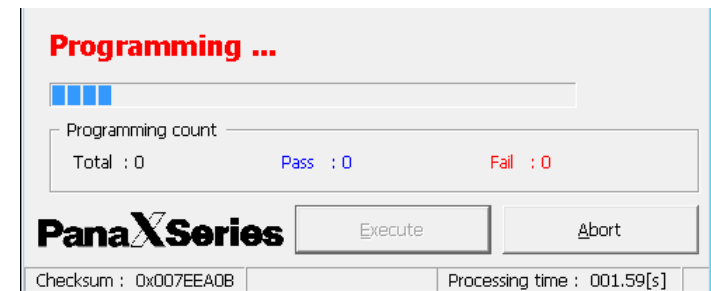


PanaX EX Commander Programming (2/3)

(2) During programming, status is displayed in the Status Area ("Programming", etc.).

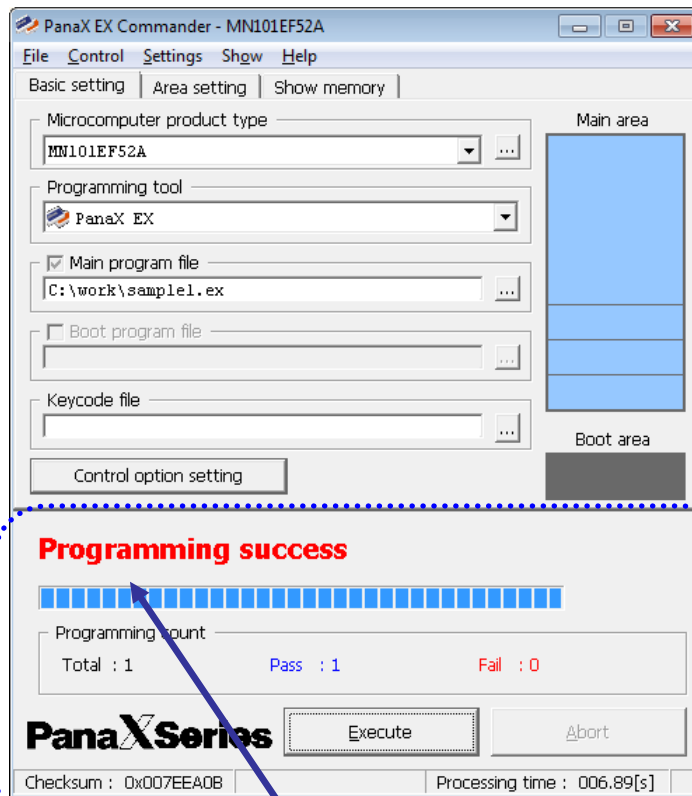


Status Area

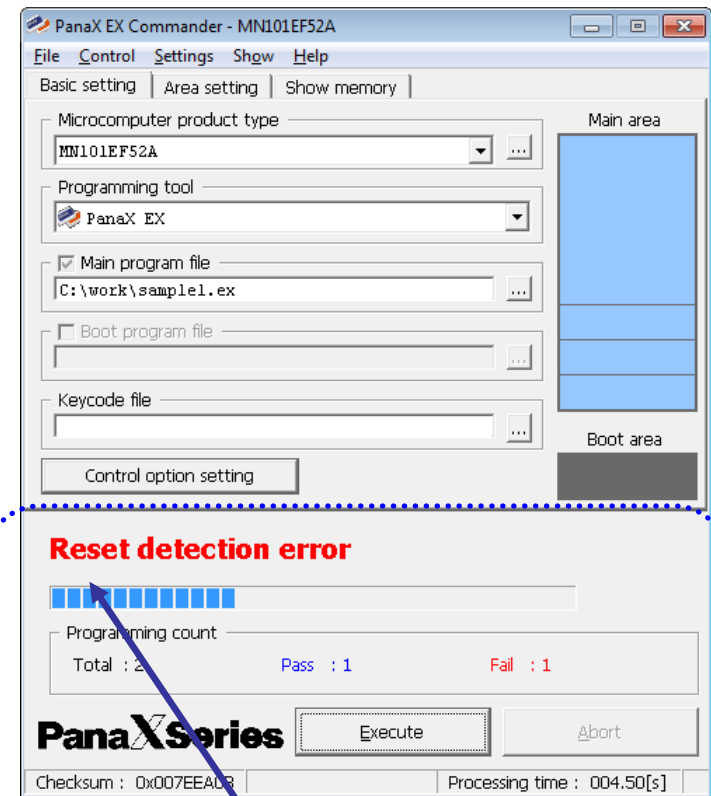


PanaX EX Commander Programming (3/3)

(3) When the programming is finished, the result will be displayed on the Status Area.



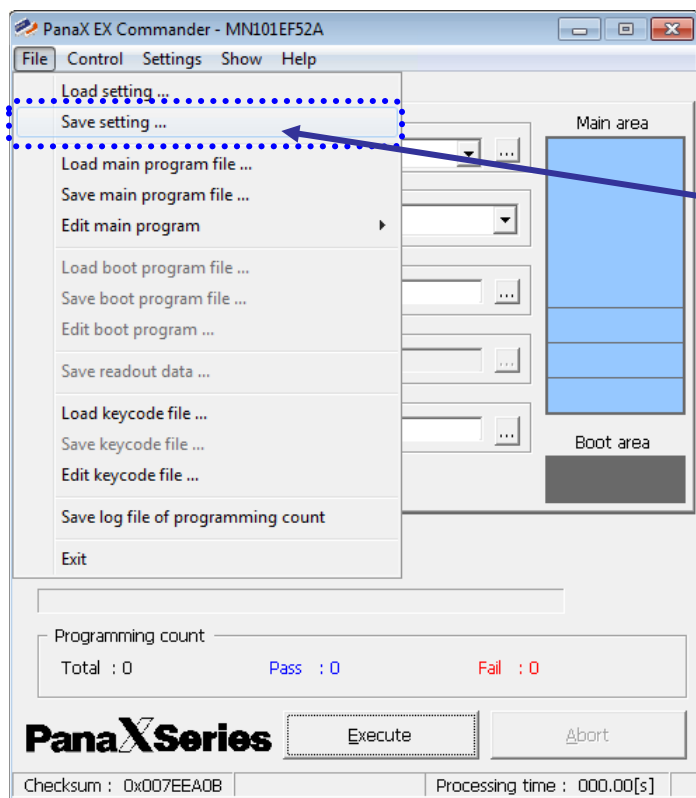
Result (Success)



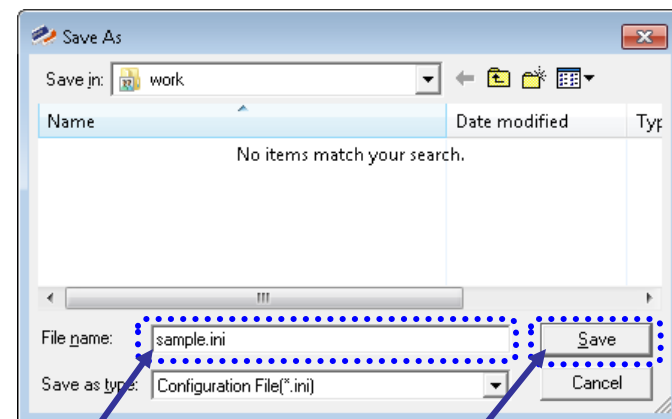
Result (Error)

Save the PanaX EX Commander Setting

(1) Select the menu [File] – [Save setting...] .



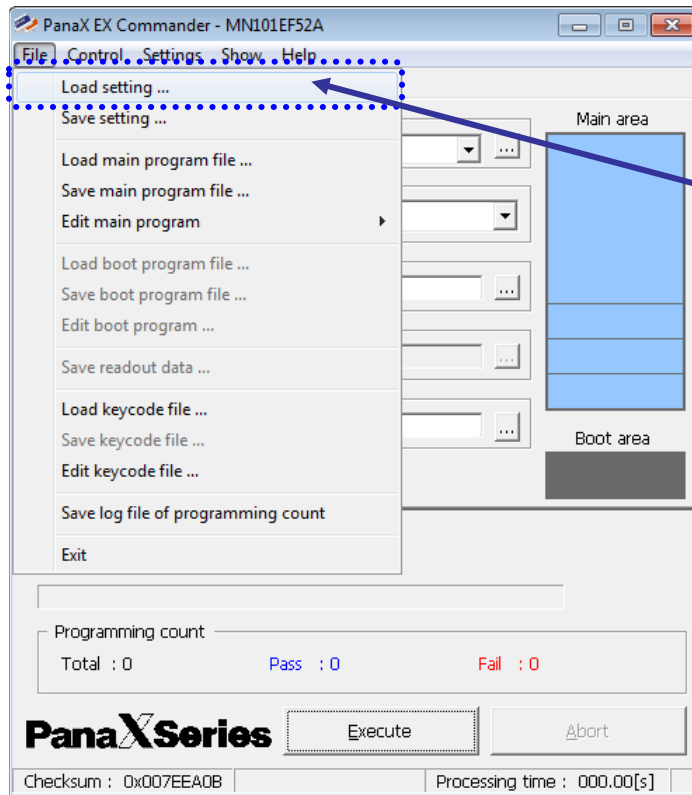
Select [Save setting...]



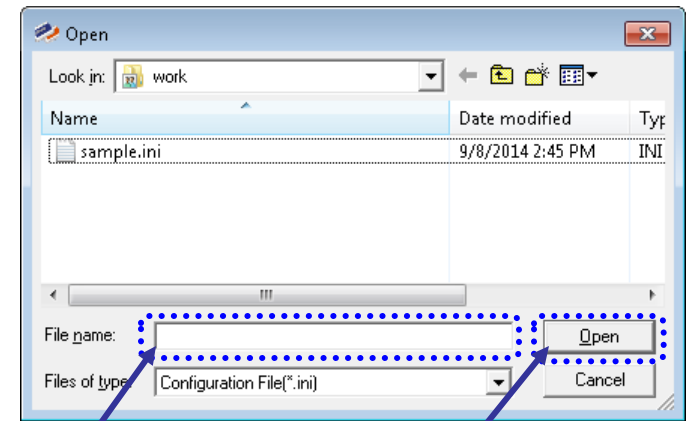
Input file name, and click the <Save> button

Load the PanaX EX Commander Setting

(1) Select the menu [File] – [Load setting...] .



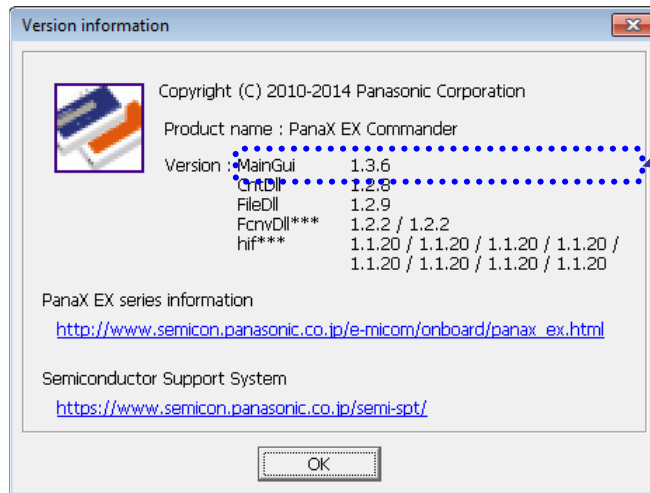
Select [Load setting...]



Select the Configuration file, and click the <Open> button

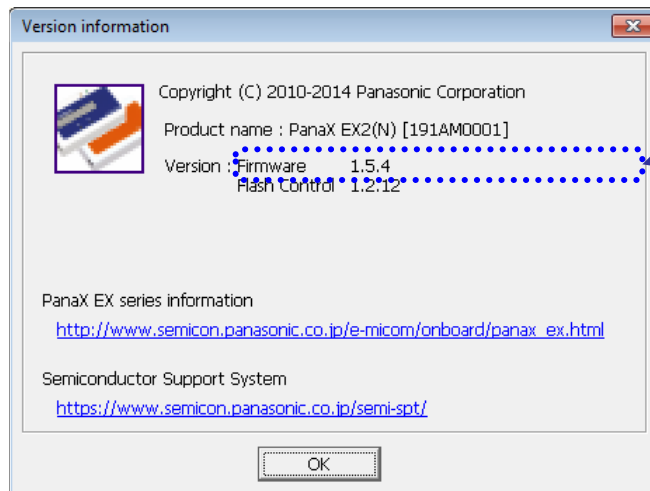
Check the PanaX EX Commander Version

(1) Select the menu [Help] – [PanaX EX Commander version ...].



PanaX EX Commander version

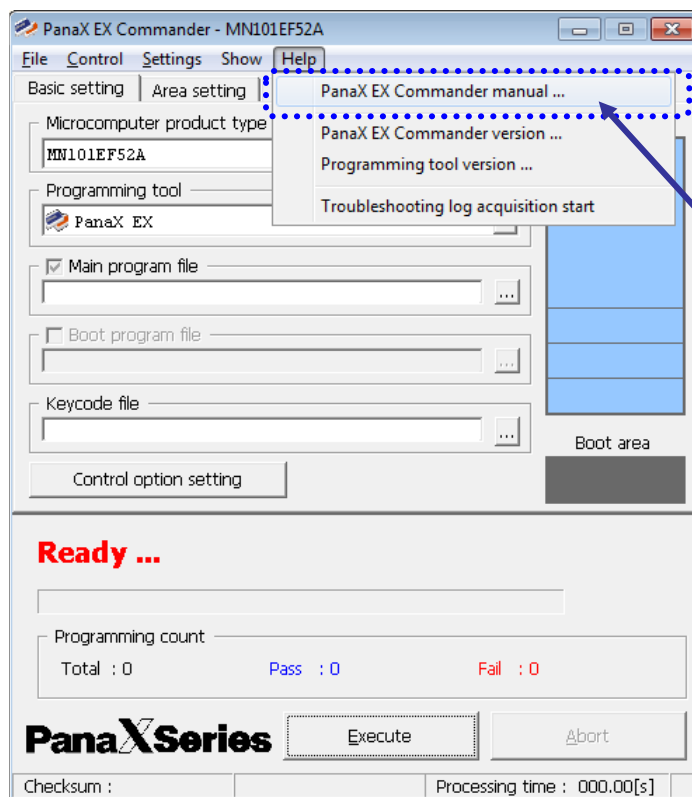
(2) Select the menu [Help] – [Programming tool version ...].



Programming tool version

PanaX EX Commander Help

- (1) Select the menu [Help] – [PanaX EX Commander manual ...].
PanaX EX Commander User's Manual (PDF format) opens.



Select [PanaX EX Commander manual...]

PanaX EX Commander Standalone Setting (1/4)

* For detail about the standalone setting, refer to "Standalone Setting" on the User's manual "3.1.1.3 Settings".

- (1) Refer to "PanaX EX Commander Setup" described above on this manual, and prepare the programming.
- (2) Select the menu [Settings] – [Standalone setting...].
- (3) Select the row of the registration number you want, and click the <register> button.

The screenshot shows the 'PanaX EX Commander - MN101EF52A' window. The 'Settings' menu is open, and 'Standalone setting ...' is selected. An arrow points from this menu item to the 'Standalone setting' dialog box. In the dialog box, the 'Setting list' table has row 1 selected. An arrow points from this row to the 'Register' button. Another arrow points from the 'Register' button to the text 'Click the <Register> button'.

Standalone setting

Target for setup
Serial No. 181AM0104

No.	Setting name
1	
2	
3	
4	
5	
6	
7	
8	

Buttons: Load, Register, Delete

Standalone movement option
☐ Continue the Execute by pushing the <SET> button once

Auto start mode option
Programming start condition: Button of programming tool
Waiting time before control[1-30000](ms): 100

LCD display option
☐ Display the checksum value after verify
☒ Display the processing time of Execute
☐ Display when operating with power supply of target board

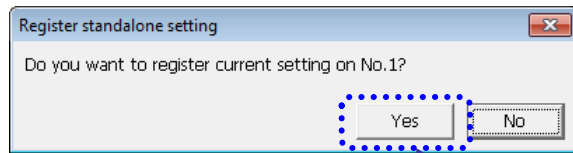
Remote control option
Remote mode: Disable
☐ Output the control state
☐ Disable <SEL> / <SET> button of the PanaX EX2

Close

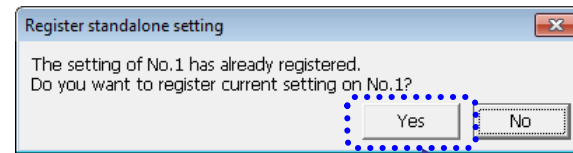
PanaX EX Commander Standalone Setting (2/4)

* For detail about the standalone setting, refer to "Standalone Setting" on the User's manual "3.1.1.3 Settings".

(4) Click the <Yes> button on the registration confirmation message box.



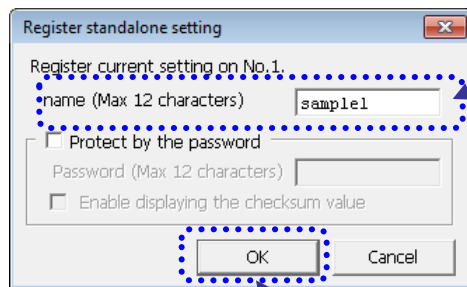
Click the <Yes> button



Click the <Yes> button

(5) Input name and click the <OK> button.

Setting name is displayed in the stand-alone configuration dialog box. It is also displayed in the [Select Setting] menu in standalone operation of PanaX EX2.



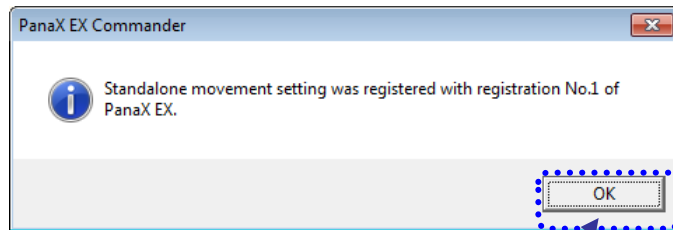
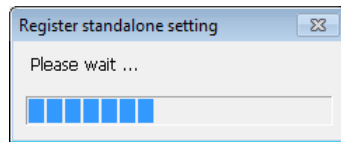
Input name

Click the <OK> button

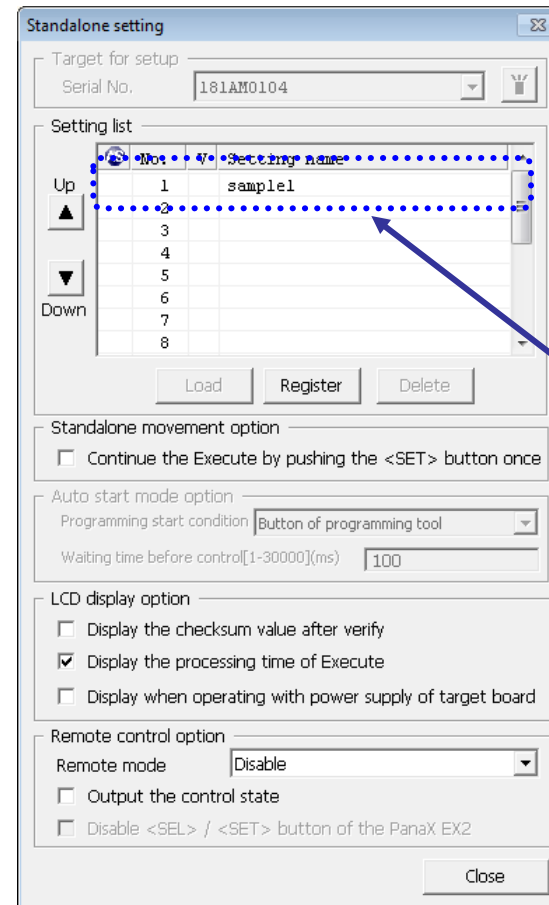
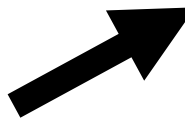
PanaX EX Commander Standalone Setting (3/4)

* For detail about the standalone setting, refer to "Standalone Setting" on the User's manual "3.1.1.3 Settings".

- (6) Click the <OK> button in the following dialog box that is displayed after registration completed.
Setting list on the standalone setting dialog box will be updated.



Click the <OK> button



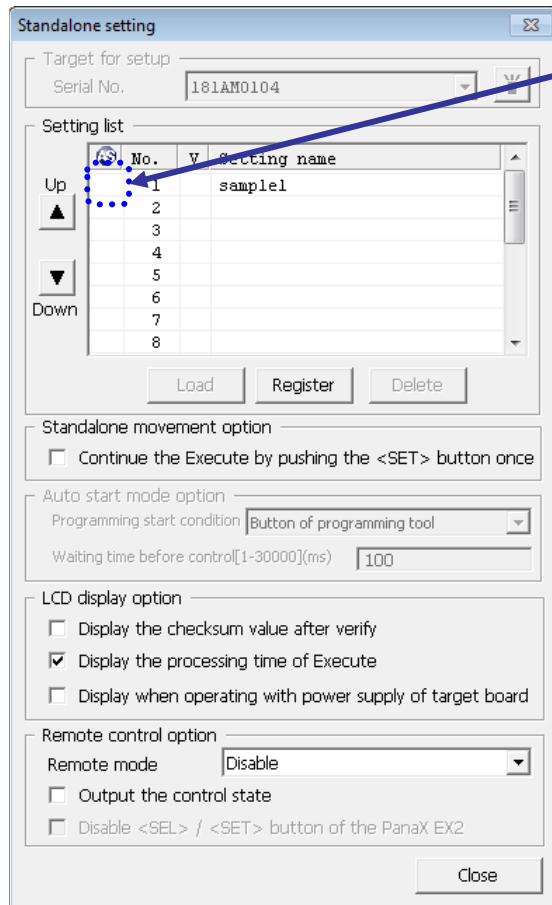
Registered setting

PanaX EX Commander Standalone Setting (4/4)

* For detail about the standalone setting, refer to "Standalone Setting" on the User's manual "3.1.1.3 Settings".

(7) If you want to enable the Auto Start Mode, click the (AS) column.

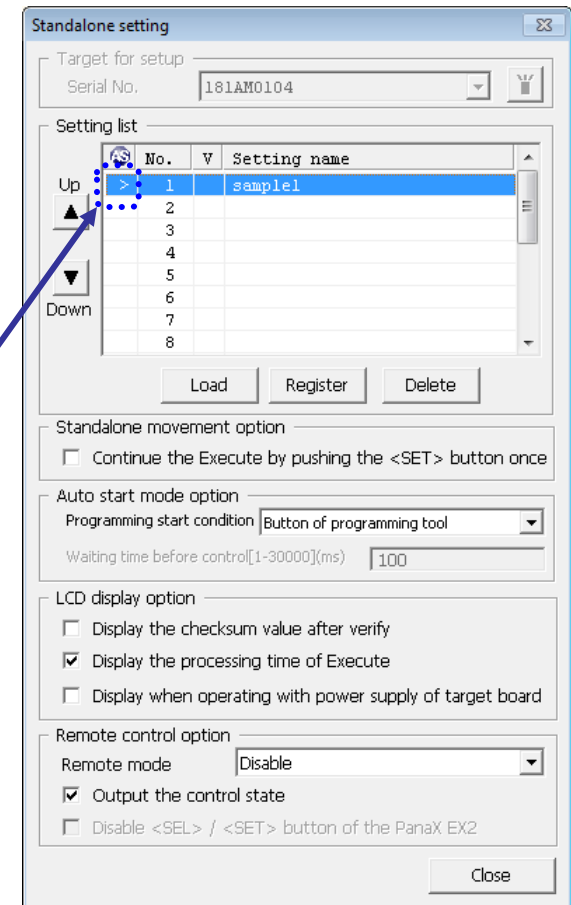
When Auto start mode is enabled, the programming tool will startup with selecting specified standalone setting, and it start programming by pushing the button once.



Click the (AS) column



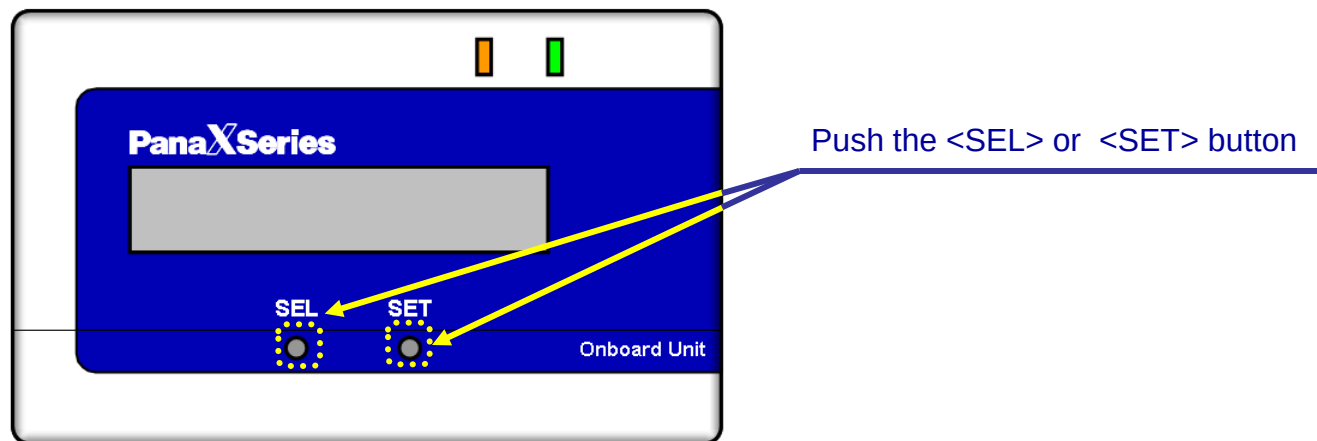
Auto start mode is enabled



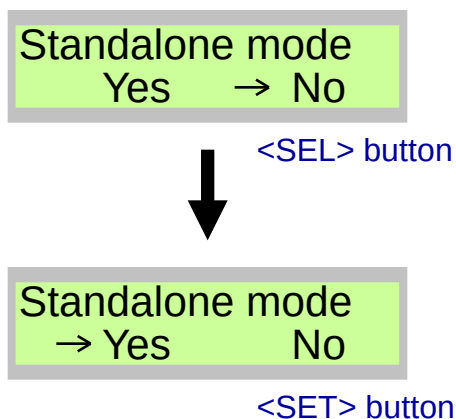
PanaX EX2 Standalone Operation (1/3)

* For detail about the standalone operation, refer to the User's manual "3.6 PanaX EX2 Standalone Operation".

(1) Startup the PanaX EX2, and push the <SEL> or <SET> button.



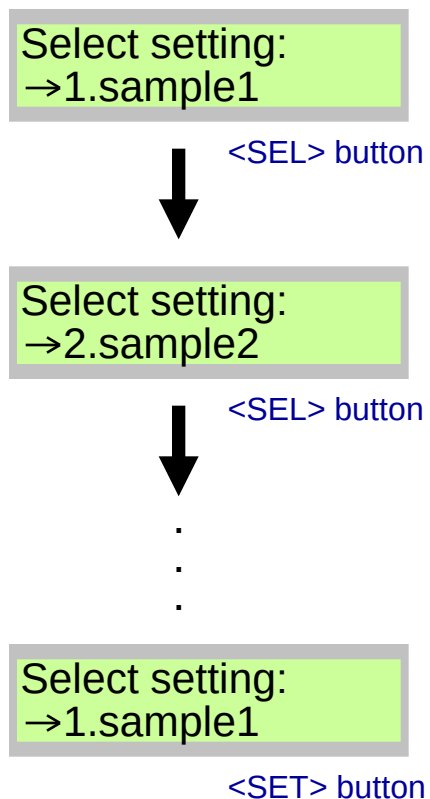
(2) Select "Yes" in the [Standalone mode] menu, and push the <SET> button.



PanaX EX2 Standalone Operation (2/3)

* For detail about the standalone operation, refer to the User's manual "3.6 PanaX EX2 Standalone Operation".

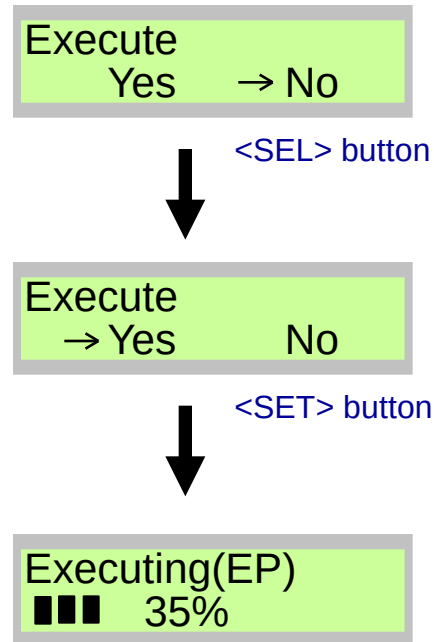
(3) Select standalone setting you want in the [Select setting] menu, and push the <SET> button.



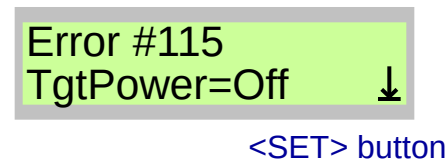
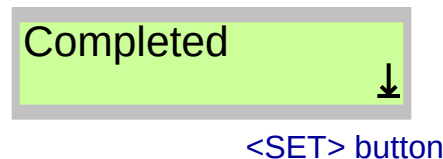
PanaX EX2 Standalone Operation (3/3)

* For detail about the standalone operation, refer to the User's manual "3.6 PanaX EX2 Standalone Operation".

- (4) Select "Yes" in the [Execute] menu, and push the <SET> button.
Then the PanaX EX2 will start the programming.



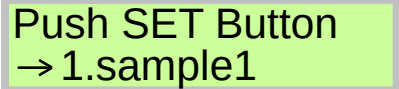
- (5) When the programming is finished, the result is displayed on the LCD.
Push the <SET> button to return to the [Execute] menu.



PanaX EX2 Standalone Operation (Auto start mode)

* For detail about the standalone operation, refer to the User's manual "3.6 PanaX EX2 Standalone Operation".

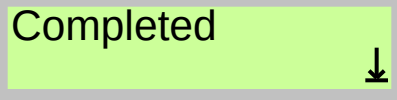
- (1) Startup the PanaX EX2, and wait until the "Push SET Button" is displayed on the LCD.
- (2) Push the <SET> button, then the PanaX EX2 will start the programming.



Push SET Button
→ 1.sample1

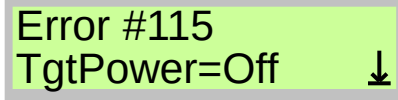
<SEL> button

- (3) When the programming is finished, the result is displayed on the LCD.
Push the <SET> button to return to the [Execute] menu.



Completed

<SET> button



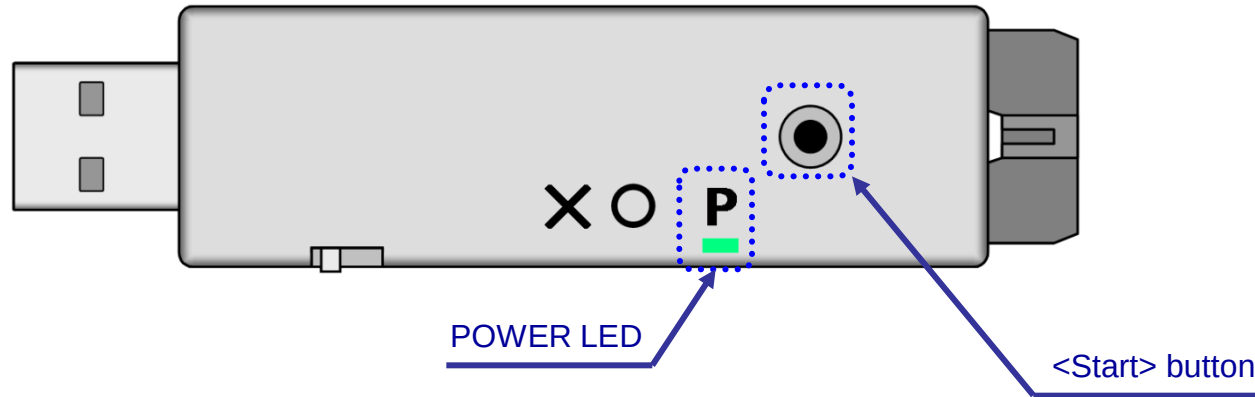
Error #115
TgtPower=Off

<SET> button

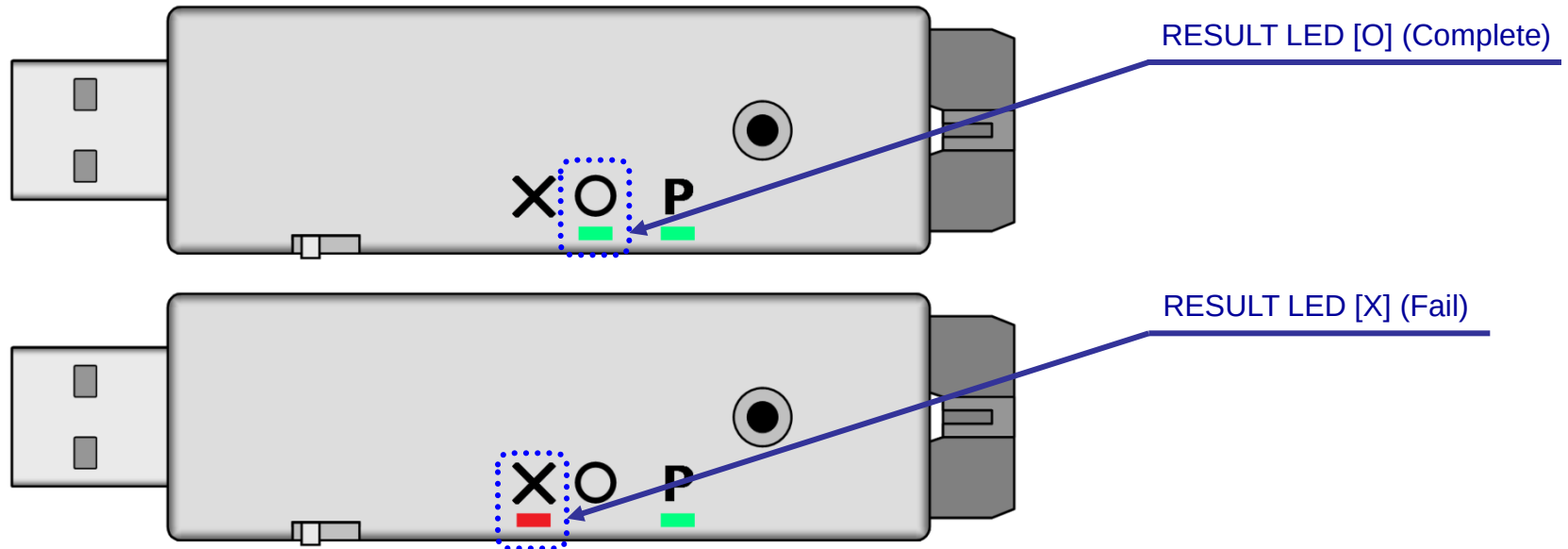
PanaX SP Standalone Operation

* For detail about the standalone operation, refer to the User's manual "3.7 PanaX SP Standalone Operation".

- (1) Push the <Start> button when the POWER LED is lighting.
Then the PanaX SP will start the programming.



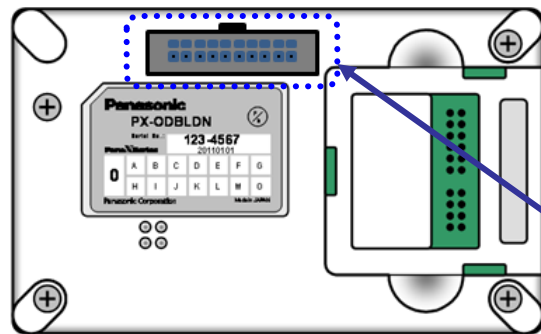
- (2) When the programming is finished, the result is indicated in the LED.



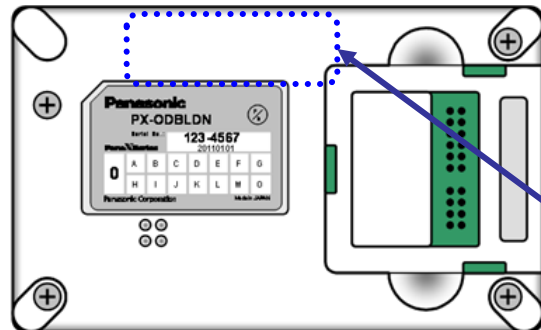
PanaX EX Commander Remote Control (1/3)

* For detail about the remote control, refer to the User's manual "3.8 PanaX EX2 Remote Control".

- * When using remote control function, the PanaX EX2 is required that supports the remote control.
- * If you want the PanaX EX2 supports the remote control function, specify option at the time of purchase.
- * If you want to add the remote control function to the PanaX EX2 already purchased, contact us via the Semiconductor Support system (Refer to "Support" on this manual).



Remote Control is supported (Extended connector is mounted)



Remote Control is not supported (Extended connector is not mounted)

PanaX EX Commander Remote Control (2/3)

* For detail about the remote control, refer to the User's manual "3.8 PanaX EX2 Remote Control".

- (1) Select the menu [Settings] – [Standalone setting...].
- (2) Select remote mode from drop-down list, and click the <Close> button.

The image shows the PanaX EX Commander software interface. The main window has a menu bar with File, Control, Settings, Show, and Help. The Settings menu is open, showing options: Control option setting ..., Standalone setting ..., and Gang programmer unit setting ... A blue dotted line highlights the Standalone setting ... option, with an arrow pointing to it from the text "Select [Standalone setting...]".

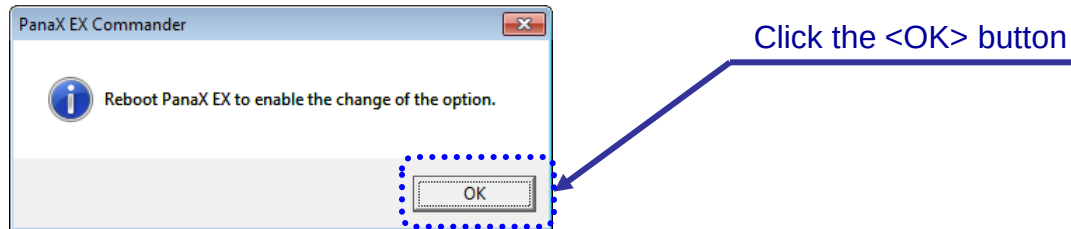
The Standalone setting dialog is shown on the right. It has a Target for setup section with Serial No. 181AM0104. Below is a Setting list table with columns No., V, and Setting name. The table contains 8 rows, with the first row having No. 1 and Setting name sample1. Below the table are Load, Register, and Delete buttons. The dialog also has sections for Standalone movement option, Auto start mode option, LCD display option, and Remote control option. The Remote control option section has a Remote mode dropdown menu with options: External pin control, Disable, External pin control, and External button control. A blue dotted line highlights the Remote mode dropdown menu, with an arrow pointing to it from the text "Select remote mode". Below the dropdown menu are checkboxes for Output the control and Disable <SET> / . A blue dotted line highlights the Close button at the bottom right of the dialog, with an arrow pointing to it from the text "Click the <Close> button".

The main window also shows a Ready ... status, a Programming count section with Total: 0, Pass: 0, and Fail: 0, and a bottom section with the PanaX Series logo, Execute and Abort buttons, Checksum: 0x007EEA0B, and Processing time: 000.00[s].

PanaX EX Commander Remote Control (3/3)

* For detail about the remote control, refer to the User's manual "3.8 PanaX EX2 Remote Control".

- (3) Click the <OK> button, and reboot the PanaX EX2 in order to enable the remote control.
Unplug the USB connector, and connect again.



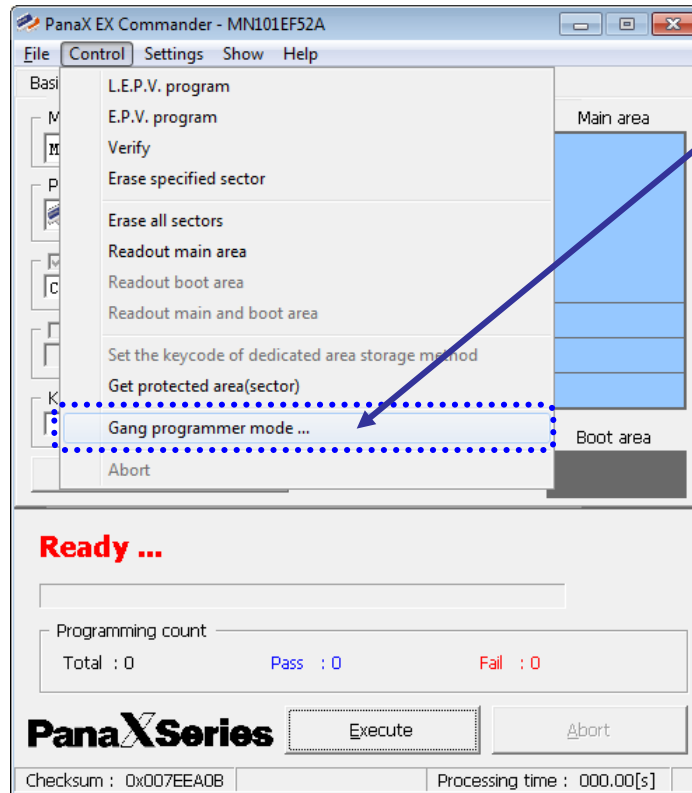
- (4) After "Remote mode" appears on the LCD, you can control PanaX EX2 by extended connector pins.

Remote mode

Gang Programmer Mode (1/2)

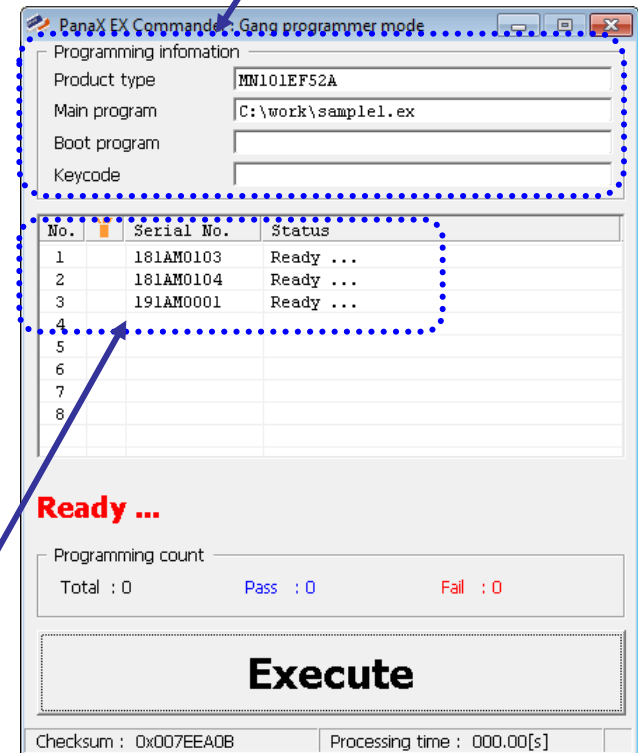
* For detail about the gang programmer mode, refer to the User's manual "3.4 Gang Programmer Mode".

- (1) Refer to "PanaX EX Commander Setup" described above on this manual, and prepare the programming.
- (2) Select the menu [Control] – [Gang programmer mode ...].
- (3) Programming information and each programming tool information are displayed on [Gang programmer mode] dialog (Programming tools that are connected are listed).



Select [Gang programmer mode ...]

Programming information



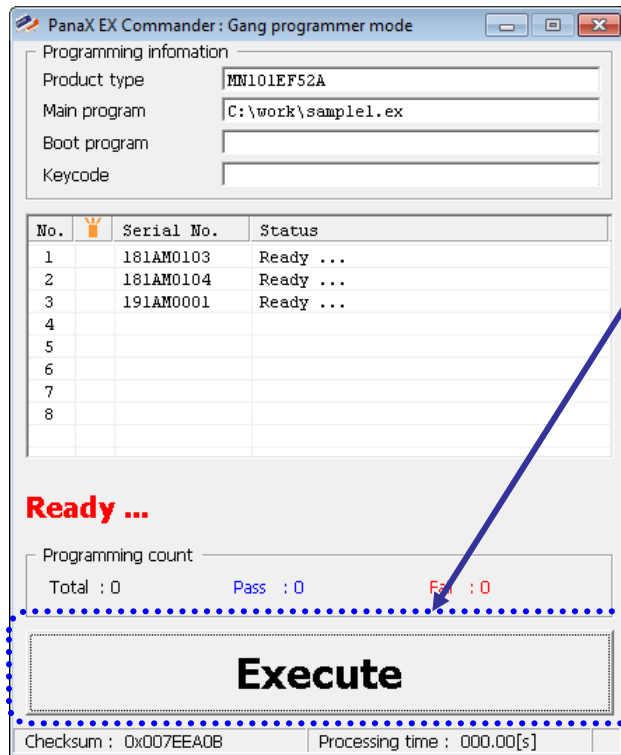
Programming tool information

Gang Programmer Mode (2/2)

* For detail about the gang programmer mode, refer to the User's manual "3.4 Gang Programmer Mode".

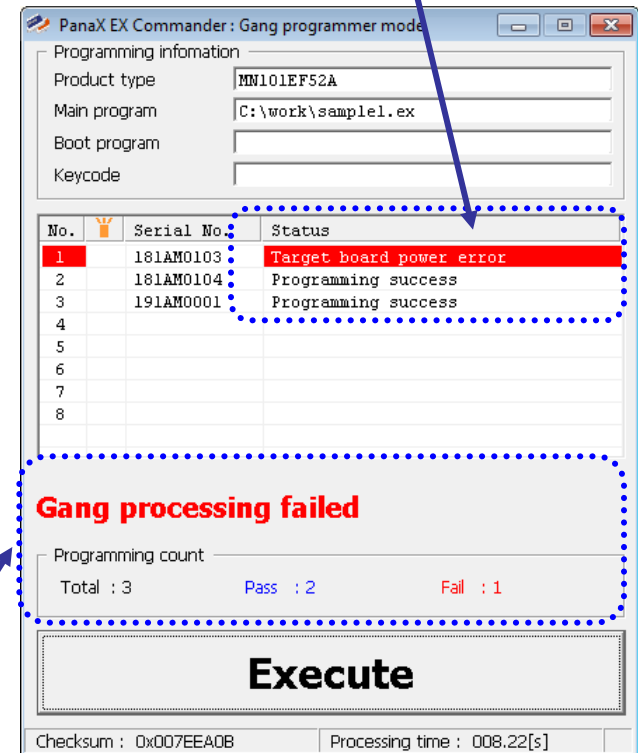
(4) Click the <Execute >button. Then all programming tools will start the programming.

(5) When the programming is finished, the result will be displayed on the list and the Status Area.



<Execute> button

[Status] column (result of each programming tools)



Status Area (result of all programming tools)

- Information and related files of PanaX EX Commander, PanaX EX series, and PanaX SP are published on the following URL.
 - Semiconductor Support system (User's registration is required).
<https://www.semicon.panasonic.co.jp/semi-spt/>
 - Panasonic Microcomputer Technical Support.
<http://www.semicon.panasonic.co.jp/e-micom/support.html>
- "PanaX EX Commander User's Manual" provide more detailed explanation.
The latest version of "PanaX EX Commander User's Manual" is available from the following URL.
<https://www.semicon.panasonic.co.jp/semi-spt/?action=3N9YqdrdRdFcRbfU4BwtpzsvbgCZWChikHWykudKX8QuiTgz%2FVEeRUGC24SZ9%2BdTgADsAWyLM8gXgbDtqHJpLp4dzRaMLrUgyl%2B8Q%2Frkvl%3D>
- The software should use the latest version.
The latest software is available from the following URL.
<https://www.semicon.panasonic.co.jp/semi-spt/?action=rQK0INLj3fV3Yuwp0ot6mJzsvbgCZWChikHWykudKX8QuiTgz%2FVEeRUGC24SZ9%2BdTgADsAWyLM8gXgbDtqHJpLp4dzRaMLrUgyl%2B8Q%2Frkvl%3D>
- If you have other questions, contact us via "Web Q&A system" on the Semiconductor Support System ([Software Development Environment] - [Inquiry]).